

of digital audio data interleaved into a sequential order with second units of digital video data, each unit of the digital audio data including more than one audio channel, and the indicating information indicating both a coding mode and identification of the digital audio data, the audio signal processor extracting the indicating information, and separating one of the audio data using the indicating information; and

a control circuit controlling the audio signal processor to separate one of the audio data based on user input designating one of the audio data.

Sub  
#110 38. (Three Times Amended) A method for processing a digital signal, comprising:

receiving indicating information and first units of digital audio data interleaved into a sequential order with second units of digital video data, each unit of the digital audio data including more than one audio channel, and the indicating information indicating both a coding mode and identification of the digital audio data;

extracting the indicating information;

separating one of the audio data using the indicating information and user input designating one of the audio data.